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L8: Entry 1 of 1 File: USPT Jul 9, 2002

DOCUMENT-IDENTIFIER: US 6416471 B1
TITLE: Portable remote patient telemonitoring system

Brief Summary Text (14):
Bornn et al. describe a portable physiological data monitoring/alert system in U.S. Pat. Nos. 4,784,162; 4,827,943; 5,214,939; 5,348,008; 5,353,793; and 5,564,429 in which one or more patients wear sensor harnesses including a microprocessor which detects potentially life-threatening events and automatically calls a central base station via radiotelemetry using a radio modem link. In a home or alternate site configuration, communications between the base station and remote unit is by way of commercial telephone lines. Generally, the system automatically calls "911" or a similar emergency response service when an abnormality is detected by the ECG monitor.

Detailed Description Text (227):
The user selects a patient case and establishes a connection with the appropriate base station unit 30. Failure to connect should be reported immediately. Conditions likely to cause failure are: 1) base station unit 30 turned off or not connected, 2) patient is not wearing a disposable sensor band 10 (data not available), 3) phone line is busy, 4) all user phone lines are busy downloading other patient sessions, and 5) the signal transfer unit 20 is out of range of the base station unit 30 (or in catch-up mode). The monitored data is displayed in a real time, smooth scrolling display. When disconnected from the base station unit 30, the user may go to the review downloaded data section to analyze the session just downloaded.

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